

BOOK NOTICES

CHRISTINE FINNIE (ed.). 2006. **Annual Plant Reviews, Volume 28: Plant Proteomics**. (ISBN 1-4051-4429-7, hbk.). Blackwell Publishing, Ames, IA 50010-0570, U.S.A. (**Orders:** 800-862-6657, 515-292-0155, www.blackwellprofessional.com). \$199.99, 253 pp., color photographs, black-and-white photographs, black-and-white illustrations, 6 1/4" × 9 1/2".

The 28th volume of Blackwell Publishing's Annual Plant Reviews is edited by Christine Finnie from the Technical University of Denmark and covers the emerging research in the field of plant proteomics. The proteome consists of "...all protein species resulting from gene expression in a cell, organelle, tissue or organism." Proteomics is the study of "...the expression pattern, cellular location, activity, regulation, post-translational modifications, molecular interactions, three dimensional structures and functions of each protein in a biological system." With the completion of the *Arabidopsis thaliana* genome sequence, the proteomes of other model systems and crop plants are under investigation. This volume is intended to keep researchers up-to-date on the current research and future directions of this fascinating field. **Chapter 1** covers the challenges of plant proteomics and the available resources, including proteomic databases and online tools. **Chapter 2** covers "Proteomic analysis of post-translational modifications by mass spectrometry." **Chapter 3** covers "Strategies for the investigation of protein-protein interactions in plants." **Chapter 4** discusses the research on proteins that undergo cysteine and disulfide redox reactions. **Chapters 5** and **6** cover structural and cereal proteomics, respectively. **Chapter 7** covers "Proteome analysis for the study of developmental processes in plants", and **Chapter 8** discusses the plant cell wall proteome. Finally, **Chapter 9** is a discussion of the proteomics of plant mitochondria.—Marissa N. Oppel, MS, Irving, TX, 75060, U.S.A.

SABEEHA MERCHANT, WINSLOW R. BRIGGS, and VICKI L. CHANDLER (eds). 2007. **Annual Review of Plant Biology: Volume 58, 2007**. (ISBN 978-0-8243-0658-8, hbk; ISSN 1543-5008). Annual Reviews Inc., 4139 El Camino Way, P.O. Box 10139, Palo Alto, CA 94303-0139, U.S.A. (**Orders:** www.AnnualReviews.org, onlineactivation@annualreviews.org, 800-523-8635, 650-493-4400, 650-424-0910 fax). \$212.00 (USA), 501 pp., 7 3/8" × 9 1/4".

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